

NOTES:

SEE DTL. DWG. NO. 617-06 FOR PIVOT ASSEMBLY DETAILS.

MOUNTING HEIGHT (H) WILL BE SHOWN IN THE PLANS OR SPECIFIED BY THE ENGINEER TO PROVIDE FOR THE PROPER HEIGHT OF THE GATE ABOVE THE ROADWAY.

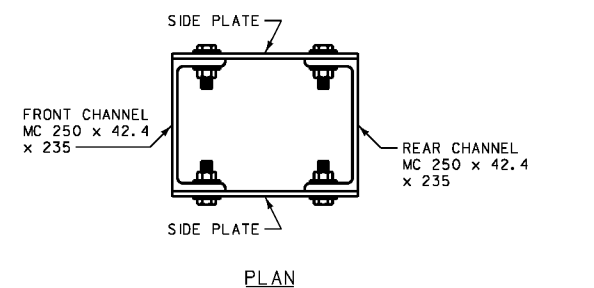
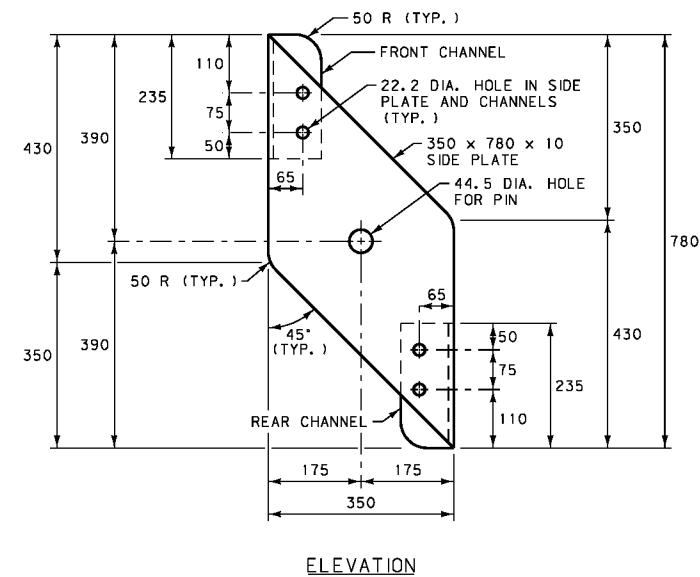
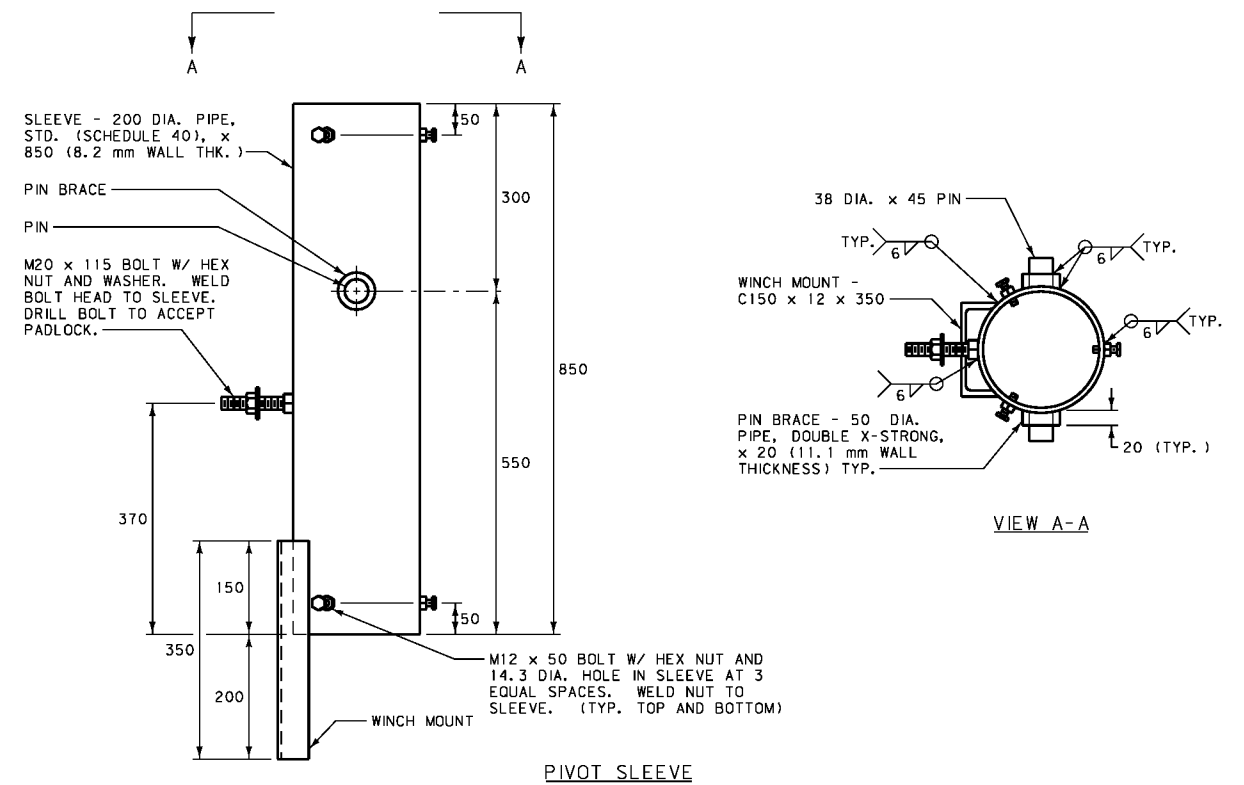
ALL BOLTS ARE TO CONFORM TO ASTM F 568M CLASS 4.6, UNLESS DESIGNATED H.S. (HIGH STRENGTH), WHICH ARE TO CONFORM TO ASTM A 325M. AFTER ROAD CLOSURE GATE ASSEMBLY, PAINT ALL EXPOSED BOLT THREADS OR DAMAGE TO THE GALVANIZING WITH TWO COATS OF ZINC RICH PAINT CONFORMING TO ASTM A 780.

* SUPPLY WORM GEAR WINCH AND CABLE FROM DUTTON - LAINSON (STOCK NUMBER 42183), OR EQUIVALENT.

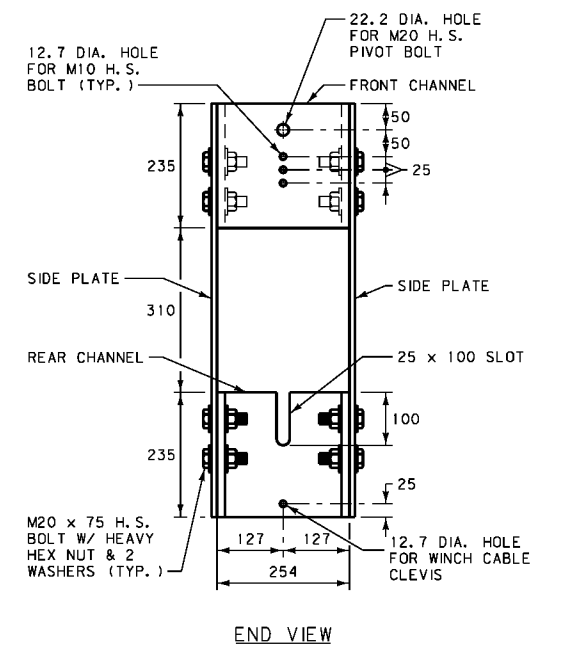
** WHEN THE GATE IS FULLY RAISED, PLACE THE NUT AND WASHER SNUGLY AGAINST THE OUTSIDE OF THE REAR CHANNEL AND PADLOCK IN PLACE. SUPPLY ONE HEAVY, WEATHERPROOF PADLOCK WITH 2 KEYS FOR EACH GATE ARM PIVOT. KEY PAIRED PIVOTS (DIVIDED HIGHWAY INSTALLATION) ALIKE.

ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

DETAILED DRAWING	
REFERENCE STANDARD SPEC. SECTION 617	DWG. NO. 617-04
ROAD CLOSURE GATE PIVOT ASSEMBLY	
EFFECTIVE: AUGUST 1999	
MONTANA DEPARTMENT OF TRANSPORTATION	



SIDE PLATE



ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

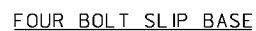
DETAILED DRAWING	
REFERENCE STANDARD SPEC. SECTION 617	DWG. NO. 617-06
ROAD CLOSURE GATE PIVOT ASSEMBLY DETAILS	
EFFECTIVE: AUGUST 1999	
MONTANA DEPARTMENT OF TRANSPORTATION	





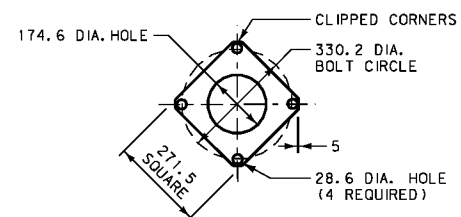
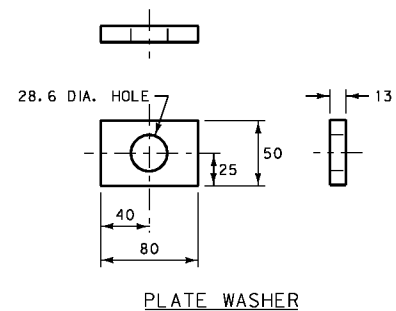
*** IT IS CRITICAL THAT THE GROUND SURROUNDING THE CONCRETE FOUNDATION BE GRADED AND CONTOURED TO PREVENT VEHICLE UNDERCARRIAGE SNAGGING. ALL POINTS ON THE GROUND SURFACE ARE TO BE AT THE TOP OF THE FOUNDATION WITHIN ANY 1525 mm HORIZONTAL DISTANCE EXTENDING OVER THE SLIP BASE AS SHOWN, AND ALIGNING PERPENDICULAR TO THE ROADWAY CENTERLINE OR ON A RADIAL LINE FOR A CURVED ROADWAY.

INSTALLATION REQUIREMENTS FOR TOP NUTS OF ANCHOR BOLTS

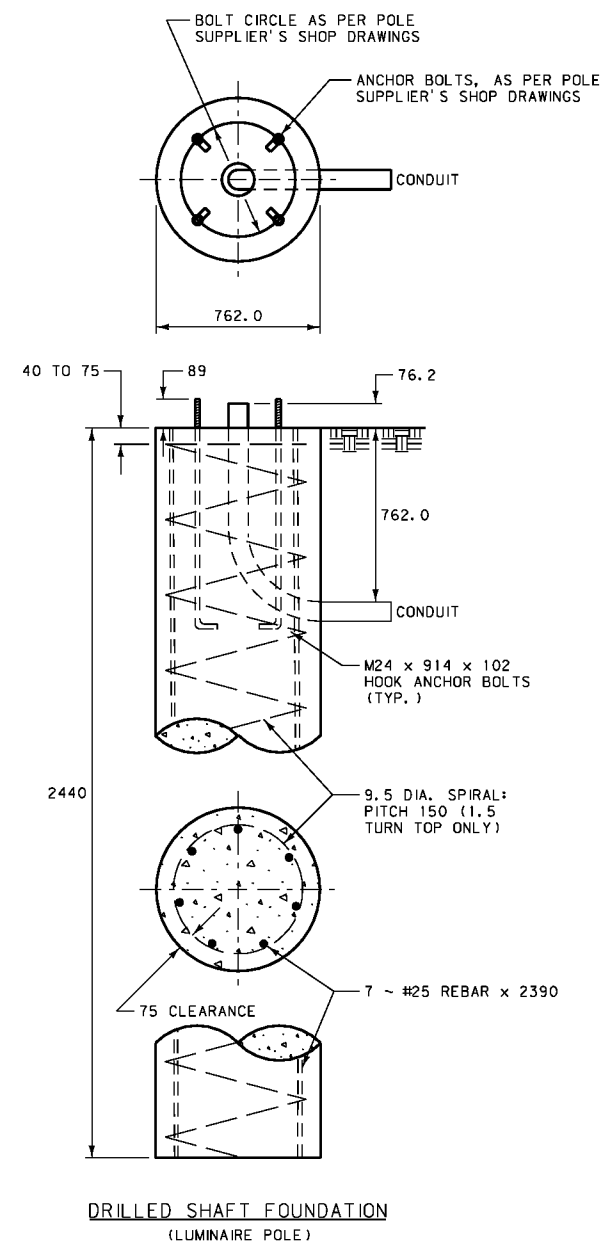
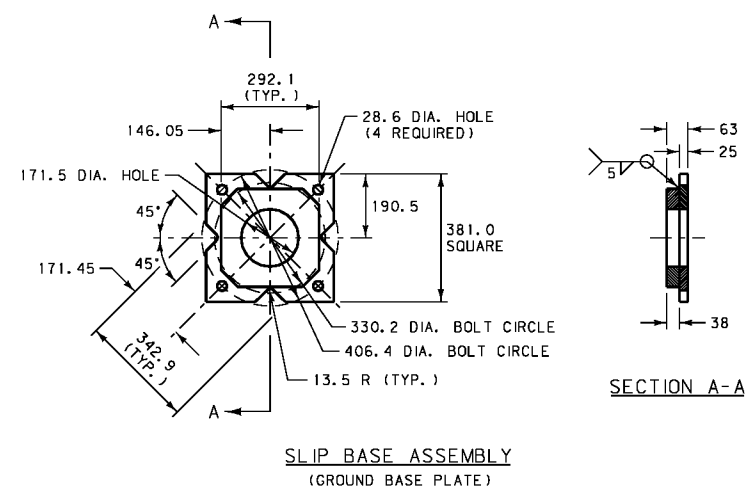
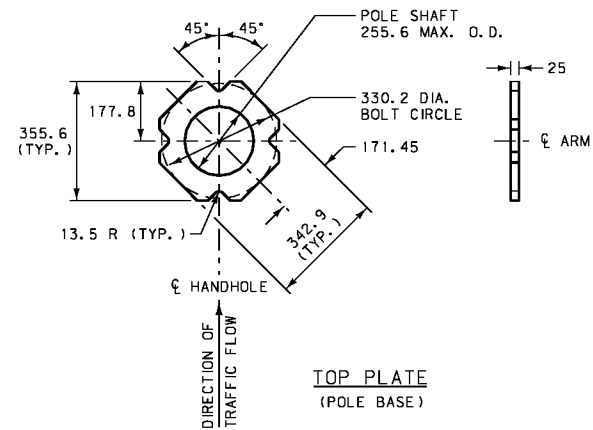
LUBE LUBRICATE BEARING FACE AND THREADS OF TOP ANCHOR BOLT NUTS WITH A STICK WAX. TIGHTEN TOP NUTS TO SNUG-TIGHT. SNUG-TIGHT IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN THE GROUND BASE PLATE IS IN FIRM CONTACT WITH THE TOP AND BOTTOM NUTS, AND IS ATTAINED BY THE FULL EFFORT OF A MAJOR USING AN ANCHOR SIZED WRENCH. AFTER THE SNUG TIGHT CONDITION IS ATTAINED, ROTATE THE TOP NUTS AN ADDITIONAL 45° (+20°, -0°).





DETAILED DRAWING	
REFERENCE STANDARD SPEC. SECTION 617	DWG. NO. 617-08
FOUR BOLT SLIP BASE	
EFFECTIVE: AUGUST 1999	
 MONTANA DEPARTMENT OF TRANSPORTATION  MONTANA CADD	



SLIP BOLT GASKET
(KEEPER PLATE)



DETAILED DRAWING	
REFERENCE STANDARD SPEC. SECTION 617	DWG. NO. 617-10
FOUR BOLT SLIP BASE DETAILS	
EFFECTIVE: AUGUST 1999	
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